

LISTING OF THE CLAIMS:

This listing of claims replaces all prior versions, and listings, of claims in the application:

1-5: (Cancelled) .

6. (Currently Amended) A subchannel digital data communication apparatus comprising:

a transmitter means for:

receiving subchannel data which includes control and management data
corresponding to at least one high speed digital data signal, and

modulating the subchannel data onto a host signal which propagates via a media
configured to carry high speed digital data signals generated by a high speed data transmitter,

wherein modulating includes modulating, via frequency-shift keying, said
subchannel data onto a subchannel carrier having a frequency in a portion of the spectrum of said
high speed digital data signal where excessive interference from frequency components of said
high speed digital data signal will not be substantially experienced;

a receiver means, coupled to said media, for recovering recovered subchannel data from a
host signal received by the receiver means; **and**

wherein said transmitter means employs frequency shift keying to alter the frequency of

said subchannel carrier between a mark frequency and a space frequency; and

wherein said receiver means includes a digital filter:

having a passband centered on said subchannel carrier frequency, and

**having a bandwidth wide enough to simultaneously encompass most of the
frequency components of said mark and space frequencies but few of the frequency
components of said high speed digital data signal.**

7. (Cancelled).

8. (Previously Presented) The apparatus of claim 6 wherein said high speed digital data signal includes a D.C. balanced signal, and wherein said subchannel carrier is substantially in a frequency range from approximately 0.5 MHz to slightly above 1 MHz.

Claims 9- 18. (Canceled).

19. (Currently Amended) **A system for transmitting subchannel data, comprising:**

a transmitter means for:

receiving subchannel data which includes control and management data corresponding to at least one high speed digital data signal, and

modulating the subchannel data onto a host signal which propagates via a media for carrying high speed digital data signals generated by a high speed data transmitter,

wherein modulating includes modulating, via frequency-shift keying, said subchannel data onto a subchannel carrier having a frequency in a portion of the spectrum of said high speed digital data signal where excessive interference from frequency components of said high speed data signal will not be substantially experienced; and

~~The system of claim 17~~, wherein said transmitter means is configured to modulate, via frequency shift keying, the frequency of said subchannel carrier between a mark frequency and a space frequency.

20. (Currently Amended) **A system for receiving subchannel data, comprising:**

a receiver means for recovering subchannel data from a host signal modulated with said subchannel data, and

wherein said subchannel data includes:

control and management data, corresponding to at least one high speed digital data signal,

wherein said control and management data has been modulated onto a host signal which propagates via a media, and

wherein being modulated includes being modulated, via frequency-shift keying, onto a subchannel carrier having a frequency in a portion of the spectrum of said high speed digital data signal where excessive interference from frequency components of said high speed digital data signal will not be substantially experienced; and

wherein the receiver means is coupled with said media that is configured to carry high speed digital data signals generated by a high speed data transmitter; and

~~The system of claim 18~~, wherein said receiver means includes a digital filter:

having a passband centered on the frequency of said subchannel carrier, and

having a bandwidth wide enough to simultaneously encompass a majority of the frequency components of a mark frequency and a space frequency but a minority of the frequency components of said high speed digital data signal.

